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SPO-124

1

## SEQUENCE LISTING

<110> Saito, Tadao  
Shimosato, Takeshi  
Kitazawa, Haruki

<120> Utilization of Cell Forcibly Expressing Toll-Like Receptor

<130> SPO-124

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<150> PCT/JP2004/002920

<151> 2004-03-05

<150> JP 2003-172132

<151> 2003-06-17

<160> 34

<170> PatentIn version 3.1

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Arg Asn Leu Ala Pro Arg Pro Leu Asp Thr Leu Arg Ser Glu Asp Phe	450	455	460	465
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Ile	Val	Lys	Leu	Ala	Pro	Glu	Asp	Leu	Ala	Asn	Leu	Thr	Ala	Leu	Arg	
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Val	Leu	Asp	Val	Gly	Gly	Asn	Cys	Arg	Arg	Cys	Asp	His	Ala	Pro	Asn	
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ccc	tgc	atg	gag	tgc	cct	cgt	cac	ttc	ccc	cag	cta	cat	ccc	gat	acc	1471
Pro	Cys	Met	Glu	Cys	Pro	Arg	His	Phe	Pro	Gln	Leu	His	Pro	Asp	Thr	
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Phe	Ser	His	Leu	Ser	Arg	Leu	Glu	Gly	Leu	Val	Leu	Lys	Asp	Ser	Ser	
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ctg acc ggt ctg cag gtg cta gac ctg tcc cac aat aag ctg gac ctc Leu Thr Gly Leu Gln Val Leu Asp Leu Ser His Asn Lys Leu Asp Leu 520 525 530 535			2239

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cac aac aac atc cac agc caa gtg tcc cag cag ctc tgc agt acg tcg His Asn Asn Ile His Ser Gln Val Ser Gln Gln Leu Cys Ser Thr Ser 585 590 595				2431
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gaa gtc ctc gac ctg gca gga aac cag ctg aag gcc ctg acc aat ggc Glu Val Leu Asp Leu Ala Gly Asn Gln Leu Lys Ala Leu Thr Asn Gly 680 685 690 695				2719
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gcc ttc gtg gtc ttc gac aaa acg cag agc gca gtg gca gac tgg gtg Ala Phe Val Val Phe Asp Lys Thr Gln Ser Ala Val Ala Asp Trp Val 875 880 885			3295
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gtg ctg gcc cac acg gac cgg gtc agt ggt ctc ttg cgc gcc agc ttc Val Leu Ala His Thr Asp Arg Val Ser Gly Leu Leu Arg Ala Ser Phe 940 945 950			3487
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Leu Pro Cys Glu Leu Gln Pro His Gly Leu Val Asn Cys Asn Trp Leu			
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Val Thr Ser Leu Ser Leu Ser Ser Asn Arg Ile His His Leu His Asp			
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Ser Asp Phe Ala His Leu Pro Ser Leu Arg His Leu Asn Leu Lys Trp			
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Asn Cys Pro Pro Val Gly Leu Ser Pro Met His Phe Pro Cys His Met			
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Thr Ile Glu Pro Ser Thr Phe Leu Ala Val Pro Thr Leu Glu Glu Leu			
115	120	125	
Asn Leu Ser Tyr Asn Asn Ile Met Thr Val Pro Ala Leu Pro Lys Ser			
130	135	140	

Leu Ile Ser Leu Ser Leu Ser His Thr Asn Ile Leu Met Leu Asp Ser  
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 Gly Ala Leu Leu Gly Leu Gly Asn Leu Thr His Leu Ser Leu Lys Tyr  
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 Pro Gln Leu His Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly  
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 Leu Val Leu Lys Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe  
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 Arg Pro Leu Ala Arg Leu Pro Met Leu Gln Thr Leu Arg Leu Gln Met  
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 Leu Thr Ala Thr Met Gly Glu Ala Asp Gly Gly Glu Lys Val Trp Leu  
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Gln Pro Gly Asp Leu Ala Pro Ala Pro Val Asp Thr Pro Ser Ser Glu  
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 Asp Phe Arg Pro Asn Cys Ser Thr Leu Asn Phe Thr Leu Asp Leu Ser  
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Glu	Asp	Ala	Leu	Pro	Tyr	Asp	Ala	Phe	Val	Val	Phe	Asp	Lys	Thr	Gln
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Ser	Ala	Val	Ala	Asp	Trp	Val	Tyr	Asn	Glu	Leu	Arg	Gly	Gln	Leu	Glu
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Glu	Cys	Arg	Gly	Arg	Trp	Ala	Leu	Arg	Leu	Cys	Leu	Glu	Glu	Arg	Asp
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Trp	Leu	Pro	Gly	Lys	Thr	Leu	Phe	Glu	Asn	Leu	Trp	Ala	Ser	Val	Tyr
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agg ttt ctt gac ttc agc ggc aac ggt atg ggc cgc atg tgg gat gag Arg Phe Leu Asp Phe Ser Gly Asn Gly Met Gly Arg Met Trp Asp Glu 610 615 620 625			1936

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gaa tag ctgagagcaa cagctggaaa cagctgcattc ttcatgcctg gttcccagagt Glu			3234
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Phe Leu Lys Ser Val Pro Arg Phe Ser Ala Ala Ala Ser Cys Ser Asn  
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Ile Thr Arg Leu Ser Leu Ile Ser Asn Arg Ile His His Leu His Asn  
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Ser Asp Phe Val His Leu Ser Asn Leu Arg Gln Leu Asn Leu Lys Trp  
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Asn Cys Pro Pro Thr Gly Leu Ser Pro Leu His Phe Ser Cys His Met  
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Thr Ile Glu Pro Arg Thr Phe Leu Ala Met Arg Thr Leu Glu Glu Leu  
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Asn Leu Ser Tyr Asn Gly Ile Thr Thr Val Pro Arg Leu Pro Ser Ser  
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145 150 155 160

Asn Ser Leu Ala Gly Leu Tyr Ser Leu Arg Val Leu Phe Met Asp Gly  
165 170 175

Asn Cys Tyr Tyr Lys Asn Pro Cys Thr Gly Ala Val Lys Val Thr Pro  
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Gly Ala Leu Leu Gly Leu Ser Asn Leu Thr His Leu Ser Leu Lys Tyr  
195 200 205

Asn Asn Leu Thr Lys Val Pro Arg Gln Leu Pro Pro Ser Leu Glu Tyr  
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Leu Leu Val Ser Tyr Asn Leu Ile Val Lys Leu Gly Pro Glu Asp Leu  
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Ala Asn Leu Thr Ser Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg  
245 250 255



Arg Cys Asp His Ala Pro Asn Pro Cys Ile Glu Cys Gly Gln Lys Ser  
 260 265 270  
 Leu His Leu His Pro Glu Thr Phe His His Leu Ser His Leu Glu Gly  
 275 280 285  
 Leu Val Leu Lys Asp Ser Ser Leu His Thr Leu Asn Ser Ser Trp Phe  
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 Gln Gly Leu Val Asn Leu Ser Val Leu Asp Leu Ser Glu Asn Phe Leu  
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 Tyr Glu Ser Ile Asn His Thr Asn Ala Phe Gln Asn Leu Thr Arg Leu  
 325 330 335  
 Arg Lys Leu Asn Leu Ser Phe Asn Tyr Arg Lys Lys Val Ser Phe Ala  
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 Arg Leu His Leu Ala Ser Ser Phe Lys Asn Leu Val Ser Leu Gln Glu  
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 Arg Trp Leu Ala Asp Leu Pro Lys Leu His Thr Leu His Leu Gln Met  
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 Asn Phe Ile Asn Gln Ala Gln Leu Ser Ile Phe Gly Thr Phe Arg Ala  
 405 410 415  
 Leu Arg Phe Val Asp Leu Ser Asp Asn Arg Ile Ser Gly Pro Ser Thr  
 420 425 430  
 Leu Ser Glu Ala Thr Pro Glu Glu Ala Asp Asp Ala Glu Gln Glu Glu  
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 Leu Leu Ser Ala Asp Pro His Pro Ala Pro Leu Ser Thr Pro Ala Ser  
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 Lys Asn Phe Met Asp Arg Cys Lys Asn Phe Lys Phe Thr Met Asp Leu  
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 Ser Arg Asn Asn Leu Val Thr Ile Lys Pro Glu Met Phe Val Asn Leu  
 485 490 495  
 Ser Arg Leu Gln Cys Leu Ser Leu Ser His Asn Ser Ile Ala Gln Ala  
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 Val Asn Gly Ser Gln Phe Leu Pro Leu Thr Asn Leu Gln Val Leu Asp  
 515 520 525  
 Leu Ser His Asn Lys Leu Asp Leu Tyr His Trp Lys Ser Phe Ser Glu  
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 Leu Pro Gln Leu Gln Ala Leu Asp Leu Gly Tyr Asn Ser Gln Pro Phe

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Met Leu His Ser Leu Ser Leu Ala His Asn Asp Ile His Thr Arg Val						
		580		585		590
Ser Ser His Leu Asn Ser Asn Ser Val Arg Phe Leu Asp Phe Ser Gly						
		595		600		605
Asn Gly Met Gly Arg Met Trp Asp Glu Gly Gly Leu Tyr Leu His Phe						
		610		615		620
Phe Gln Gly Leu Ser Gly Leu Leu Lys Leu Asp Leu Ser Gln Asn Asn						
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						640
Leu His Ile Leu Arg Pro Gln Asn Leu Asp Asn Leu Pro Lys Ser Leu						
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Lys Leu Leu Ser Leu Arg Asp Asn Tyr Leu Ser Phe Phe Asn Trp Thr						
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Ser Leu Ser Phe Leu Pro Asn Leu Glu Val Leu Asp Leu Ala Gly Asn						
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Gln Leu Lys Ala Leu Thr Asn Gly Thr Leu Pro Asn Gly Thr Leu Leu						
		690		695		700
Gln Lys Leu Asp Val Ser Ser Asn Ser Ile Val Ser Val Val Pro Ala						
		705		710		715
						720
Phe Phe Ala Leu Ala Val Glu Leu Lys Glu Val Asn Leu Ser His Asn						
		725		730		735
Ile Leu Lys Thr Val Asp Arg Ser Trp Phe Gly Pro Ile Val Met Asn						
		740		745		750
Leu Thr Val Leu Asp Val Arg Ser Asn Pro Leu His Cys Ala Cys Gly						
		755		760		765
Ala Ala Phe Val Asp Leu Leu Leu Glu Val Gln Thr Lys Val Pro Gly						
		770		775		780
Leu Ala Asn Gly Val Lys Cys Gly Ser Pro Gly Gln Leu Gln Gly Arg						
		785		790		795
						800
Ser Ile Phe Ala Gln Asp Leu Arg Leu Cys Leu Asp Glu Val Leu Ser						
		805		810		815
Trp Asp Cys Phe Gly Leu Ser Leu Leu Ala Val Ala Val Gly Met Val						
		820		825		830
Val Pro Ile Leu His His Leu Cys Gly Trp Asp Val Trp Tyr Cys Phe						
		835		840		845

His Leu Cys Leu Ala Trp Leu Pro Leu Leu Ala Arg Ser Arg Arg Ser  
 850 855 860  
 Ala Gln Ala Leu Pro Tyr Asp Ala Phe Val Val Phe Asp Lys Ala Gln  
 865 870 875 880  
 Ser Ala Val Ala Asp Trp Val Tyr Asn Glu Leu Arg Val Arg Leu Glu  
 885 890 895  
 Gly Arg Arg Gly Arg Arg Ala Leu Arg Leu Cys Leu Glu Asp Arg Asp  
 900 905 910  
 Trp Leu Pro Gly Gln Thr Leu Phe Glu Asn Leu Trp Ala Ser Ile Tyr  
 915 920 925  
 Gly Ser Arg Lys Thr Leu Phe Val Leu Ala His Thr Asp Arg Val Ser  
 930 935 940  
 Gly Leu Leu Arg Thr Ser Phe Leu Leu Ala Gln Gln Arg Leu Leu Glu  
 945 950 955 960  
 Asp Arg Lys Asp Val Val Val Leu Val Ile Leu Arg Pro Asp Ala His  
 965 970 975  
 Arg Ser Arg Tyr Val Arg Leu Arg Gln Arg Leu Cys Arg Gln Ser Val  
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 Leu Phe Trp Pro Gln Gln Pro Asn Gly Gln Gly Gly Phe Trp Ala Gln  
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Met Gly Pro Cys His Gly Ala Leu His  
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Pro Leu Ser Leu Leu Val Gln Ala Ala Ala Leu Ala Val Ala Leu Ala  
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cag ggc acc ctg cct gcc ttt ctg ccc tgt gag ctc cag cgc cac ggc 210  
Gln Gly Thr Leu Pro Ala Phe Leu Pro Cys Glu Leu Gln Arg His Gly  
30 35 40

ctg gtg aat tgc gac tgg ctg ttc ctc aag tcc gtg ccc cac ttc tcg 258  
Leu Val Asn Cys Asp Trp Leu Phe Leu Lys Ser Val Pro His Phe Ser  
45 50 55

gcg gca gcg ccc cgt ggt aac gtc acc agc ctt tcc ctg tac tcc aac 306  
Ala Ala Ala Pro Arg Gly Asn Val Thr Ser Leu Ser Leu Tyr Ser Asn  
60 65 70

cgc atc cac cac ctc cac gac tcc gac ttt gtc cac ctg tcc agc ctg 354  
Arg Ile His His Leu His Asp Ser Asp Phe Val His Leu Ser Ser Leu  
75 80 85

cgg cgt ctc aac ctc aaa tgg aac tgc cca ccc gcc agc ctc agc ccc 402  
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Met His Phe Pro Cys His Met Thr Ile Glu Pro His Thr Phe Leu Ala  
110 115 120

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125 130 135

gta ccc gcc ctg ccc agt tcc ctc gtg tcc ctg tcc ttg agc cgt acc 546  
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Thr His Leu Ser Leu Lys Tyr Asn Asn Leu Thr Ala Val Pro Arg Gly  
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 Arg Val Arg Leu Glu Glu Arg Arg Gly Arg Arg Ala Leu Arg Leu Cys  
 890 895 900 905  
  
 ctg gag gaa cgt gac tgg cta ccc ggt aaa acg ctc ttt gag aac ctg 2850  
 Leu Glu Glu Arg Asp Trp Leu Pro Gly Lys Thr Leu Phe Glu Asn Leu  
 910 915 920  
  
 tgg gcc tca gtt tac agc agc cgc aag atg ctg ttt gtg ctg gcc cac 2898  
 Trp Ala Ser Val Tyr Ser Ser Arg Lys Met Leu Phe Val Leu Ala His  
 925 930 935  
  
 aca gac agg gtc agc ggc ctc ttg cgc gcc agc ttt ctg ctg gcc cag 2946  
 Thr Asp Arg Val Ser Gly Leu Leu Arg Ala Ser Phe Leu Leu Ala Gln  
 940 945 950  
  
 cag cgc ctg ctg gag gac cgc aag gac gtt gtg gtg ctg gtg atc ctg 2994  
 Gln Arg Leu Leu Glu Asp Arg Lys Asp Val Val Val Leu Val Ile Leu  
 955 960 965  
  
 cgc ccc gac gcc cac cgc tcc cgc tat gtg cgg ctg cgc cag cgc ctc 3042  
 Arg Pro Asp Ala His Arg Ser Arg Tyr Val Arg Leu Arg Gln Arg Leu  
 970 975 980 985  
  
 tgc cgc cag agc gtc ctc ctc tgg ccc cac cag ccc agt ggc cag cgc 3090  
 Cys Arg Gln Ser Val Leu Leu Trp Pro His Gln Pro Ser Gly Gln Arg  
 990 995 1000  
  
 agc ttc tgg gcc cag ctg ggc acg gcc ctg acc agg gac aac cag 3135  
 Ser Phe Trp Ala Gln Leu Gly Thr Ala Leu Thr Arg Asp Asn Gln  
 1005 1010 1015  
  
 cac ttc tat aac cag aac ttc tgc cgg ggc ccc acg acg gca gag 3180  
 His Phe Tyr Asn Gln Asn Phe Cys Arg Gly Pro Thr Thr Ala Glu  
 1020 1025 1030  
  
 tga ccgcccagca cccaagcct cctacacctt gcctgtctgc ctgggatgcc 3233  
  
 gggcctgctg gccctgcaac accactgctc tgcctcccca actcccaccc ctggcatata 3293  
  
 gcagatgctc aataaatgct actagtaggc tgaacggct 3332

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<211> 1031

<212> PRT

<213> Felis Catus

<220>

<221> misc\_feature

<222> (622)..(622)

<223> The 'Xaa' at location 622 stands for His, Arg, Pro, or Leu.

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Met Gly Pro Cys His Gly Ala Leu His Pro Leu Ser Leu Leu Val Gln  
 1 5 10 15



Ala Ala Ala Leu Ala Val Ala Leu Ala Gln Gly Thr Leu Pro Ala Phe  
 20 25 30  
 Leu Pro Cys Glu Leu Gln Arg His Gly Leu Val Asn Cys Asp Trp Leu  
 35 40 45  
 Phe Leu Lys Ser Val Pro His Phe Ser Ala Ala Ala Pro Arg Gly Asn  
 50 55 60  
 Val Thr Ser Leu Ser Leu Tyr Ser Asn Arg Ile His His Leu His Asp  
 65 70 75 80  
 Ser Asp Phe Val His Leu Ser Ser Leu Arg Arg Leu Asn Leu Lys Trp  
 85 90 95  
 Asn Cys Pro Pro Ala Ser Leu Ser Pro Met His Phe Pro Cys His Met  
 100 105 110  
 Thr Ile Glu Pro His Thr Phe Leu Ala Val Pro Thr Leu Glu Glu Leu  
 115 120 125  
 Asn Leu Ser Tyr Asn Ser Ile Thr Thr Val Pro Ala Leu Pro Ser Ser  
 130 135 140  
 Leu Val Ser Leu Ser Leu Ser Arg Thr Asn Ile Leu Val Leu Asp Pro  
 145 150 155 160  
 Ala Asn Leu Ala Gly Leu His Ser Leu Arg Phe Leu Phe Leu Asp Gly  
 165 170 175  
 Asn Cys Tyr Tyr Lys Asn Pro Cys Pro Gln Ala Leu Gln Val Ala Pro  
 180 185 190  
 Gly Ala Leu Leu Gly Leu Gly Asn Leu Thr His Leu Ser Leu Lys Tyr  
 195 200 205  
 Asn Asn Leu Thr Ala Val Pro Arg Gly Leu Pro Pro Ser Leu Glu Tyr  
 210 215 220  
 Leu Leu Leu Ser Tyr Asn His Ile Ile Thr Leu Ala Pro Glu Asp Leu  
 225 230 235 240  
 Ala Asn Leu Thr Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg  
 245 250 255  
 Arg Cys Asp His Ala Arg Asn Pro Cys Met Glu Cys Pro Lys Gly Phe  
 260 265 270  
 Pro His Leu His Pro Asp Thr Phe Ser His Leu Asn His Leu Glu Gly  
 275 280 285  
 Leu Val Leu Lys Asp Ser Ser Leu Tyr Asn Leu Asn Pro Arg Trp Phe  
 290 295 300  
 His Ala Leu Gly Asn Leu Met Val Leu Asp Leu Ser Glu Asn Phe Leu

305		310		315		320
Tyr Asp Cys Ile Thr Lys Thr Thr Ala Phe Gln Gly Leu Ala Gln Leu						
		325		330		335
Arg Arg Leu Asn Leu Ser Phe Asn Tyr His Lys Lys Val Ser Phe Ala						
		340		345		350
His Leu His Leu Ala Pro Ser Phe Gly Ser Leu Leu Ser Leu Gln Gln						
		355		360		365
Leu Asp Met His Gly Ile Phe Phe Arg Ser Leu Ser Glu Thr Thr Leu						
		370		375		380
Arg Ser Leu Val His Leu Pro Met Leu Gln Ser Leu His Leu Gln Met						
		385		390		395
Asn Phe Ile Asn Gln Ala Gln Leu Ser Ile Phe Gly Ala Phe Pro Gly						
		405		410		415
Leu Arg Tyr Val Asp Leu Ser Asp Asn Arg Ile Ser Gly Ala Met Glu						
		420		425		430
Leu Ala Ala Ala Thr Gly Glu Val Asp Gly Gly Glu Arg Val Arg Leu						
		435		440		445
Pro Ser Gly Asp Leu Ala Leu Gly Pro Pro Gly Thr Pro Ser Ser Glu						
		450		455		460
Gly Phe Met Pro Gly Cys Lys Thr Leu Asn Phe Thr Leu Asp Leu Ser						
		465		470		475
Arg Asn Asn Leu Val Thr Ile Gln Pro Glu Met Phe Ala Arg Leu Ser						
		485		490		495
Arg Leu Gln Cys Leu Leu Leu Ser Arg Asn Ser Ile Ser Gln Ala Val						
		500		505		510
Asn Gly Ser Gln Phe Met Pro Leu Thr Ser Leu Gln Val Leu Asp Leu						
		515		520		525
Ser His Asn Lys Leu Asp Leu Tyr His Gly Arg Ser Phe Thr Glu Leu						
		530		535		540
Pro Arg Leu Glu Ala Leu Asp Leu Ser Tyr Asn Ser Gln Pro Phe Ser						
		545		550		555
Met Gln Gly Val Gly His Asn Leu Ser Phe Val Ala Gln Leu Pro Ala						
		565		570		575
Leu Arg Tyr Leu Ser Leu Ala His Asn Asp Ile His Ser Arg Val Ser						
		580		585		590
Gln Gln Leu Cys Ser Ala Ser Leu Arg Ala Leu Asp Phe Ser Gly Asn						
		595		600		605

Ala Leu Ser Arg Met Trp Ala Glu Gly Asp Leu Tyr Leu Xaa Phe Phe  
 610 615 620  
 Arg Gly Leu Arg Ser Leu Val Arg Leu Asp Leu Ser Gln Asn Arg Leu  
 625 630 635 640  
 His Thr Leu Leu Pro Arg Thr Leu Asp Asn Leu Pro Lys Ser Leu Arg  
 645 650 655  
 Leu Leu Arg Leu Arg Asp Asn Tyr Leu Ala Phe Phe Asn Trp Ser Ser  
 660 665 670  
 Leu Val Leu Leu Pro Arg Leu Glu Ala Leu Asp Leu Ala Gly Asn Gln  
 675 680 685  
 Leu Lys Ala Leu Ser Asn Gly Ser Leu Pro Asn Gly Thr Gln Leu Gln  
 690 695 700  
 Arg Leu Asp Leu Ser Ser Asn Ser Ile Ser Phe Val Ala Ser Ser Phe  
 705 710 715 720  
 Phe Ala Leu Ala Thr Arg Leu Arg Glu Leu Asn Leu Ser Ala Asn Ala  
 725 730 735  
 Leu Lys Thr Val Glu Pro Ser Trp Phe Gly Ser Leu Ala Gly Thr Leu  
 740 745 750  
 Lys Val Leu Asp Val Thr Gly Asn Pro Leu His Cys Ala Cys Gly Ala  
 755 760 765  
 Ala Phe Val Asp Phe Leu Leu Glu Val Gln Ala Ala Val Pro Gly Leu  
 770 775 780  
 Pro Gly His Val Lys Cys Gly Ser Pro Gly Gln Leu Gln Gly Arg Ser  
 785 790 795 800  
 Ile Phe Ala Gln Asp Leu Arg Leu Cys Leu Asp Glu Ala Leu Ser Trp  
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 Asp Cys Phe Gly Leu Ser Leu Leu Thr Val Ala Leu Gly Leu Ala Val  
 820 825 830  
 Pro Met Leu His His Leu Cys Gly Trp Asp Leu Trp Tyr Cys Phe His  
 835 840 845  
 Leu Cys Leu Ala Trp Leu Pro Arg Arg Gly Arg Arg Arg Gly Ala Asp  
 850 855 860  
 Ala Leu Pro Tyr Asp Ala Phe Val Val Phe Asp Lys Ala Gln Ser Ala  
 865 870 875 880  
 Val Ala Asp Trp Val Tyr Asn Glu Leu Arg Val Arg Leu Glu Glu Arg  
 885 890 895  
 Arg Gly Arg Arg Ala Leu Arg Leu Cys Leu Glu Glu Arg Asp Trp Leu  
 900 905 910

Pro Gly Lys Thr Leu Phe Glu Asn Leu Trp Ala Ser Val Tyr Ser Ser  
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Arg Lys Met Leu Phe Val Leu Ala His Thr Asp Arg Val Ser Gly Leu  
       930                          935                          940

Leu Arg Ala Ser Phe Leu Leu Ala Gln Gln Arg Leu Leu Glu Asp Arg  
   945                          950                          955                          960

Lys Asp Val Val Val Leu Val Ile Leu Arg Pro Asp Ala His Arg Ser  
                           965                          970                          975

Arg Tyr Val Arg Leu Arg Gln Arg Leu Cys Arg Gln Ser Val Leu Leu  
                           980                          985                          990

Trp Pro His Gln Pro Ser Gly Gln Arg Ser Phe Trp Ala Gln Leu Gly  
                           995                          1000                          1005

Thr Ala Leu Thr Arg Asp Asn Gln His Phe Tyr Asn Gln Asn Phe  
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Cys Arg Gly Pro Thr Thr Ala Glu  
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